

Author Index

- Avila, P., see Blanco, J. 151
- Barthelemy, C., see Blanco, J. 151
- Baba, T.
- and Ono, Y.
Enhancing effect of hydrogen on the catalytic activity of trisilver dodecatungstophosphate for the isomerization of 1-butene 301
- Bahamonde, A., see Blanco, J. 151
- Blanco, J.
-, Avila, P., Barthelemy, C., Bahamonde, A., Odrizola, J.A., Garcia de la Banda, J.F. and Heinemann, H.
Influence of phosphorus in vanadium-containing catalysts for NO_x removal 151
- Cambor, M.A.
-, Corma, A., Martínez, A., Mocholí, F.A. and Pérez Pariente, J.
Catalytic cracking of gasoil: Benefits in activity and selectivity of small Y zeolite crystallites stabilized by a higher silicon-to-aluminium ratio by synthesis 65
- Chen, Y.-W., see Wang, P.-J. 181
- Chuvilin, A.L., see Lisitsyn, A.V. 235
- Cooper, W.C., see Egiebor, N.O. 47
- Corma, A., see Cambor, M.A. 65
- Danilyuk, A.F., see Lisitsyn, A.V. 235
- Das, D.P., see Sengupta, G. 165
- Dutta, S., see Sengupta, G. 165
- Egiebor, N.O.
-, Cooper, W.C. and Wojciechowski, B.W.
Synthesis of motor fuels from HY-zeolite supported Fischer-Tropsch iron catalysts 47
- Egiebor, N.O.
-, Gray, M.R.
¹³C-NMR Characterization of organic residues on spent hydroprocessing, hydrocracking and demetallization catalysts 81
- Engels, S.
-, Lausch, H., Peplinski, B., Wilde, M., Mörke, W. and Kraak, P.
The state of metallic phase in alumina-supported platinum-chromium catalysts 93
- Evaldsson, L.
-, Löwendahl, L. and Otterstedt, J.-E.
Fibrillar alumina as a wash-coat on monoliths in the catalytic oxidation of xylene 123
- Fan, C., see Fu, Y. 11
- Fu, Y.
-, Tang, X., Huang, Z. and Fan, C.
Valency and adsorption characteristics of a sulphided MoO₃/γ-Al₂O₃ methanation catalyst 11
- Garcia de la Banda, J.F., see Blanco, J. 151
- Gavalas, G.R., see Nam, S.W. 193
- Gol'denberg, G.I., see Ovsyannikova, I.A. 75
- Golovin, A.V., see Lisitsyn, A.S. 235
- Gray, M.R., see Egiebor, N.O. 81
- Guerrero-Ruiz, A.
Calorimetric study of the coadsorption of hydrogen and carbon monoxide over ruthenium graphitized carbon black catalysts 21
- Hattori, T., see Mori, Y. 225
- Heinemann, H., see Blanco, J. 151
- Hepburn, J.S.
-, Stenger Jr., H.G. and Lyman, C.E.
Distributions of HF co-impregnated rhodium, platinum and palladium in alumina honeycomb supports 271
- Hepburn, J.S.
-, Stenger Jr., H.G. and Lyman, C.E.
Effects of drying on the preparation of HF co-impregnated rhodium/Al₂O₃ catalysts 287
- Huang, Z., see Fu, Y. 11
- Imanaka, T., see Okamoto, Y. 215
- Irvine, E.A., see Moyes, R.B. L5
- Ismagilov, Z.R., see Ovsyannikova, I.A. 75
- Jablonski, E.L., see Pieck, C.L. 1
- Kanai, J.
- and Kawata, N.
Aromatization of n-hexane over galloaluminosilicate and gallosilicate 115
- Kanta Rao, P., see Mahipal Reddy, B. L1
- Kawata, N., see Kanai, J. 115
- Ketchik, S.V., see Sengupta, G. 165
- Kitamura, M., see Okamoto, Y. 215
- Korayabkina, N.A., see Ovsyannikova, I.A. 75

Author Index

- Avila, P., see Blanco, J. 151
- Barthelemy, C., see Blanco, J. 151
- Baba, T.
- and Ono, Y.
Enhancing effect of hydrogen on the catalytic activity of trisilver dodecatungstophosphate for the isomerization of 1-butene 301
- Bahamonde, A., see Blanco, J. 151
- Blanco, J.
-, Avila, P., Barthelemy, C., Bahamonde, A., Odrizola, J.A., Garcia de la Banda, J.F. and Heinemann, H.
Influence of phosphorus in vanadium-containing catalysts for NO_x removal 151
- Cambor, M.A.
-, Corma, A., Martínez, A., Mocholí, F.A. and Pérez Pariente, J.
Catalytic cracking of gasoil: Benefits in activity and selectivity of small Y zeolite crystallites stabilized by a higher silicon-to-aluminium ratio by synthesis 65
- Chen, Y.-W., see Wang, P.-J. 181
- Chuvilin, A.L., see Lisitsyn, A.V. 235
- Cooper, W.C., see Egiebor, N.O. 47
- Corma, A., see Cambor, M.A. 65
- Danilyuk, A.F., see Lisitsyn, A.V. 235
- Das, D.P., see Sengupta, G. 165
- Dutta, S., see Sengupta, G. 165
- Egiebor, N.O.
-, Cooper, W.C. and Wojciechowski, B.W.
Synthesis of motor fuels from HY-zeolite supported Fischer-Tropsch iron catalysts 47
- Egiebor, N.O.
-, Gray, M.R.
¹³C-NMR Characterization of organic residues on spent hydroprocessing, hydrocracking and demetallization catalysts 81
- Engels, S.
-, Lausch, H., Peplinski, B., Wilde, M., Mörke, W. and Kraak, P.
The state of metallic phase in alumina-supported platinum-chromium catalysts 93
- Evaldsson, L.
-, Löwendahl, L. and Otterstedt, J.-E.
Fibrillar alumina as a wash-coat on monoliths in the catalytic oxidation of xylene 123
- Fan, C., see Fu, Y. 11
- Fu, Y.
-, Tang, X., Huang, Z. and Fan, C.
Valency and adsorption characteristics of a sulphided MoO₃/γ-Al₂O₃ methanation catalyst 11
- Garcia de la Banda, J.F., see Blanco, J. 151
- Gavalas, G.R., see Nam, S.W. 193
- Gol'denberg, G.I., see Ovsyannikova, I.A. 75
- Golovin, A.V., see Lisitsyn, A.S. 235
- Gray, M.R., see Egiebor, N.O. 81
- Guerrero-Ruiz, A.
Calorimetric study of the coadsorption of hydrogen and carbon monoxide over ruthenium graphitized carbon black catalysts 21
- Hattori, T., see Mori, Y. 225
- Heinemann, H., see Blanco, J. 151
- Hepburn, J.S.
-, Stenger Jr., H.G. and Lyman, C.E.
Distributions of HF co-impregnated rhodium, platinum and palladium in alumina honeycomb supports 271
- Hepburn, J.S.
-, Stenger Jr., H.G. and Lyman, C.E.
Effects of drying on the preparation of HF co-impregnated rhodium/Al₂O₃ catalysts 287
- Huang, Z., see Fu, Y. 11
- Imanaka, T., see Okamoto, Y. 215
- Irvine, E.A., see Moyes, R.B. L5
- Ismagilov, Z.R., see Ovsyannikova, I.A. 75
- Jablonski, E.L., see Pieck, C.L. 1
- Kanai, J.
- and Kawata, N.
Aromatization of n-hexane over galloaluminosilicate and gallosilicate 115
- Kanta Rao, P., see Mahipal Reddy, B. L1
- Kawata, N., see Kanai, J. 115
- Ketchik, S.V., see Sengupta, G. 165
- Kitamura, M., see Okamoto, Y. 215
- Korayabkina, N.A., see Ovsyannikova, I.A. 75

- Kraak, P., see Engels, S. 93
- Kundu, M.L., see Sengupta, G. 165
- Kuznetsov, V.L., see Lisitsyn, A.V. 235
- Löwendahl, L., see Evaldsson, L. 123
- Lausch, H., see Engels, S. 93
- Li, F., see Wang, W.-X. 33
- Lisitsyn, A.S.
- , Golovin, A.V., Chuvilin, A.L., Kuznetsov, V.L., Romanenko, A.V., Danilyuk, A.F. and Yermakov, Yu.I.
Thermal decomposition of metal carbonyls on oxide supports containing surface hydrides: A route to highly dispersed metal catalysts with unusual properties 235
- Lyman, C.E., see Hepburn, J.S. 271
- Lyman, C.E., see Hepburn, J.S. 287
- Mörke, W., see Engels, S. 93
- Maezawa, A., see Okamoto, Y. 215
- Mahipal Reddy, B.
- , Narsimha, K., Sivaraj, Ch. and Kanta Rao, P.
Titration of active sites for partial oxidation of methanol over V_2O_5/SnO_2 and MoO_3/SnO_2 catalysts by a low-temperature oxygen chemisorption technique L1
- Martínez, A., see Cambor, M.A. 65
- Mieth, J.A.
- and Schwarz, J.A.
Effects of alumina dissolution and metal ion buffering on the dispersion of alumina supported nickel and ruthenium catalysts 137
- Mishra, K.K., see Sengupta, G. 165
- Mocholf, F.A., see Cambor, M.A. 65
- Mori, T., see Mori, Y. 225
- Mori, Y.
- , Mori, T., Hattori, T. and Murakami, Y.
Design of a potassium-promoted Rh/Al_2O_3 catalyst for synthesis of C_2 oxygenates by pulse surface reaction rate analysis 225
- Moyes, R.B.
- , Walker, D.W., Wells, P.B., Whan, D.A. and Irvine, E.A.
An unusual form of non-Arrhenius behaviour in ethyne hydrogenation over palladium catalysts L5
- Murakami, Y., see Mori, Y. 225
- Nam, S.W.
- and Gavalas, G.R.
- Adsorption and Oxidative Adsorption of Sulfur Dioxide on γ -Alumina 193
- Narsimha, K., see Mahipal Reddy, B. L1
- Nicolaides, C.P.
- , Scurrall, M.S. and Vink, J.
Quality control in the preparation of zeolite ZSM-5 using a catalytic test reaction 259
- Odriozola, J.A., see Blanco, J. 151
- Okamoto, Y.
- , Maezawa, A., Kitamura, M. and Imanaka, T.
Molybdena-alumina interaction chemistry effect of preadsorbed sulphate and fluorine anions on the dispersion of molybdenum 215
- Ono, Y., see Baba, T. 301
- Otterstedt, J.-E., see Evaldsson, L. 123
- Ovsyannikova, I.A.
- , Gol'denberg, G.I., Korayabkina, N.A., Shkrabina, R.A. and Ismagilov, Z.R.
Study of structural and mechanical properties of granulated alumina supports using X-ray microprobes 75
- Pérez Pariente, J., see Cambor, M.A. 65
- Parera, J.M., see Pieck, C.L. 1
- Peplinski, B., see Engels, S. 93
- Pieck, C.L.
- , Verderone, R.J., Jablonski, E.L. and Parera, J.M.
Burning of coke on $Pt-Re/Al_2O_3$ catalyst: Activation energy and oxygen reaction order 1
- Pokhriyal, S.K., see Ratnasamy, P. 265
- Ratnasamy, P.
- and Pokhriyal, S.K.
Surface passivation and shape selectivity in xylene isomerization over ZSM-48 265
- Romanenko, A.V., see Lisitsyn, A.V. 235
- Roy, S.K., see Sengupta, G. 165
- Sahay, R.N., see Sengupta, G. 165
- Schwarz, J.A., see Mieth, J.A. 137
- Scurrall, M.S., see Nicolaides, C.P. 259
- Sengupta, G.
- , Das, D.P., Kundu, M.L., Dutta, S., Roy, S.K., Sahay, R.N., Mishra, K.K. and Ketchik, S.V.
Study of copper-zinc oxide catalysts, characterisation of the coprecipitate and mixed oxide 65
- Shkrabina, R.A., see Ovsyannikova, I.A. 75
- Sivaraj, Ch., see Mahipal Reddy, B. L1

Stammbach, M.R.

Valix, M., Trimm, D.L. and Wainwright, M.S.

Pelleted copper ion-exchanged silica catalysts
for the hydrolysis of acrylonitrile to acrylamide
109

Stenger Jr., H.G., see Hepburn, J.S. 271

Stenger Jr., H.G., see Hepburn, J.S. 287

Tang, X., see Fu, Y. 11

Trimm, D.L., see Stammbach, M.R. 93

Valix, M., see Stammbach, M.R. 93

Verderone, R.J., see Pieck, C.L. 1

Vink, J., see Nicolaides, C.P. 259

Wainwright, M.S., see Stammbach, M.R. 93

Walker, D.W., see Moyes, R.B. L5

Wang, W.-X.

- and Li, F.

Influence of water soaking on the structure and
properties of fused-iron catalyst for ammonia
synthesis 33

Wang, P.-J.

- and Chen, Y.-W.

Deactivation of iron oxide-iron phosphate
catalyst in isopropanol dehydration 181

Wells, P.B., see Moyes, R.B. L5

Whan, D.A., see Moyes, R.B. L5

Wilde, M., see Engels, S. 93

Wojciechowski, B.W., see Egiebor, N.O. 47

Yermakov, Yu.I., see Lisitsyn, A.V. 235

Subject Index

Acrylamide synthesis

- Pelleted copper ion-exchanged silica catalysts for the hydrolysis of acrylonitrile to acrylamide 109

Acrylonitrile hydrolysis

- Pelleted copper ion-exchanged silica catalysts for the hydrolysis of acrylonitrile to acrylamide 109

Active sites

- Titration of active sites for partial oxidation of methanol over V_2O_5/SnO_2 and MoO_3/SnO_2 catalysts by a low-temperature oxygen chemisorption technique L1

Adsorption

- Adsorption and oxidative adsorption of sulfur dioxide on γ -alumina 193

Adsorption

- Calorimetric study of the coadsorption of hydrogen and carbon monoxide over ruthenium graphitized carbon black catalysts 21

Adsorption

- Valency and adsorption characteristics of a sulphided $MoO_3/\gamma-Al_2O_3$ methanation catalyst 11

Adsorption

- Titration of active sites for partial oxidation of methanol over V_2O_5/SnO_2 and MoO_3/SnO_2 catalysts by a low-temperature oxygen chemisorption technique L1

Adsorption

- Synthesis of motor fuels from HY-zeolite supported Fischer-Tropsch iron catalysts 47

Ageing

- Pelleted copper ion-exchanged silica catalysts for the hydrolysis of acrylonitrile to acrylamide 109

Ageing

- The state of metallic phase in alumina-supported platinum-chromium catalysts 93

Ageing

- Fibrillar alumina as a wash-coat on monoliths in the catalytic oxidation of xylene 123

Ageing

- Influence of phosphorus in vanadium-containing catalysts for NO_x removal 151

Alumina

- Study of structural and mechanical properties of granulated alumina supports using X-ray microprobes 75

Alumina

- Adsorption and oxidative adsorption of sulfur dioxide on γ -alumina 193

Ammonia synthesis

- Influence of water soaking on the structure and properties of fused-iron catalyst for ammonia synthesis 33

Arrhenius behaviour (non-)

- An unusual form of non-Arrhenius behaviour in ethyne hydrogenation over palladium catalysts L5

Brønsted acid sites

- Enhancing effect of hydrogen on the catalytic activity of trisilver dodecatungstophosphate for the isomerization of 1-butene 301

Butene isomerization

- Enhancing effect of hydrogen on the catalytic activity of trisilver dodecatungstophosphate for the isomerization of 1-butene 301

Carbon monoxide hydrogenation

- Calorimetric study of the coadsorption of hydrogen and carbon monoxide over ruthenium graphitized carbon black catalysts 21

Catalyst characterization (nitrogen adsorption)

- Fibrillar alumina as a wash-coat on monoliths in the catalytic oxidation of xylene 123

Catalyst characterization (EPMA)

- Distributions of HF co-impregnated rhodium, platinum and palladium in alumina honeycomb supports 271

Catalyst characterization (X-ray spectral microanalysis)

- Study of structural and mechanical properties of granulated alumina supports using X-ray microprobes 75

Catalyst characterization (XPS, XRD)

- Influence of phosphorus in vanadium-containing catalysts for NO_x removal 151

Catalyst characterization (PSRA)

- Design of a potassium-promoted Rh/Al_2O_3 catalyst for synthesis of C_2 oxygenates by pulse surface reaction rate analysis 225

Catalyst characterization (TPR, XPS)

- Molybdena-alumina interaction chemistry: Effect of preadsorbed sulphate and fluorine anions on the dispersion of molybdenum 215
- Catalyst characterization (NMR)
- ¹³C-NMR characterization of organic residues on spent hydroprocessing, hydrocracking and demetalization catalysts 81
- Catalyst characterization (hydrogen dispersion)
- Effects of alumina dissolution and metal ion buffering on the dispersion of alumina supported nickel and ruthenium catalysts 137
- Catalyst characterization (FTIR, TGA)
- Adsorption and oxidative adsorption of sulfur dioxide on γ -alumina 193
- Catalyst characterization (MES, SEM)
- Influence of water soaking on the structure and properties of fused-iron catalyst for ammonia synthesis 33
- Catalyst characterization (catalytic activity)
- Enhancing effect of hydrogen on the catalytic activity of trisilver dodecatungstophosphate for the isomerization of 1-butene 301
- Catalyst characterization (EPMA)
- Effects of drying on the preparation of HF co-impregnated rhodium/ Al_2O_3 catalysts 287
- Catalyst characterization (FMR, TPR, XRD)
- The state of metallic phase in alumina-supported platinum-chromium catalysts 93
- Catalyst characterization (TEM, XRD)
- Catalytic Cracking of Gasoil: Benefits in activity and selectivity of small Y zeolite crystallites stabilized by a higher silicon-to-aluminium ratio by synthesis 65
- Catalyst characterization (XPS)
- Valency and adsorption characteristics of a sulphided $\text{MoO}_3/\gamma\text{-Al}_2\text{O}_3$ methanation catalyst 11
- Catalyst characterization (FMR)
- Thermal decomposition of metal carbonyls on oxide supports containing surface hydrides: A route to highly dispersed metal catalysts with unusual properties 235
- Catalyst characterization (microcalorimetry)
- Calorimetric study of the coadsorption of hydrogen and carbon monoxide over ruthenium graphitized carbon black catalysts 21
- Catalyst characterization (XRD, catalytic test reaction)
- Quality control in the preparation of zeolite ZSM-5 using a catalytic test reaction 259
- Catalyst preparation (ion exchange)
- Fibrillar alumina as a wash-coat on monoliths in the catalytic oxidation of xylene 123
- Catalyst preparation (wet impregnation)
- Effects of drying on the preparation of HF co-impregnated rhodium/ Al_2O_3 catalysts 287
- Catalyst preparation (pyrolysis)
- Thermal decomposition of metal carbonyls on oxide supports containing surface hydrides: A route to highly dispersed metal catalysts with unusual properties 235
- Catalyst preparation (zeolite synthesis)
- Catalytic cracking of gasoil: Benefits in activity and selectivity of small Y zeolite crystallites stabilized by a higher silicon-to-aluminium ratio by synthesis 65
- Catalyst preparation (coprecipitation)
- Synthesis of motor fuels from HY-zeolite supported Fischer-Tropsch iron catalysts 47
- Catalyst preparation (wet impregnation)
- Distributions of HF co-impregnated rhodium, platinum and palladium in alumina honeycomb supports 271
- Catalyst preparation (wet impregnation)
- The state of metallic phase in alumina-supported platinum-chromium catalysts 93
- Catalyst preparation (alumina dissolution)
- Effects of alumina dissolution and metal ion buffering on the dispersion of alumina supported nickel and ruthenium catalysts 137
- Catalyst preparation (ion exchange)
- Pelleted copper ion-exchanged silica catalysts for the hydrolysis of acrylonitrile to acrylamide 109
- Catalyst preparation (evaporation)
- Influence of phosphorus in vanadium-containing catalysts for NO_x removal 151
- Catalyst preparation (precipitation)
- Study of copper-zinc oxide catalysts, characterisation of the coprecipitate and mixed oxide 165
- Catalyst preparation (fusion)
- Influence of water soaking on the structure and properties of fused-iron Catalyst for Ammonia synthesis 33
- Catalyst preparation (quality control)

- Quality control in the preparation of zeolite ZSM-5 using a catalytic test reaction 259
- Cobalt/silica**
Thermal decomposition of metal carbonyls on oxide supports containing surface hydrides: A route to highly dispersed metal catalysts with unusual properties 235
- Cobalt-molybdenum/alumina**
¹³C-NMR characterization of organic residues on spent hydroprocessing, hydrocracking and demetallization catalysts 81
- Coke formation**
Catalytic cracking of gasoil: Benefits in activity and selectivity of small Y zeolite crystallites stabilized by a higher silicon-to-aluminium ratio by synthesis 65
- Coke formation**
Burning of coke on Pt-Re/Al₂O₃ catalyst: Activation energy and oxygen reaction order 1
- Coke formation**
Deactivation of iron oxide-iron phosphate catalyst in isopropanol dehydration 181
- Coke formation**
¹³C-NMR characterization of organic residues on spent hydroprocessing, hydrocracking and demetallization catalysts 81
- Coke formation**
Burning of coke on Pt-Re/Al₂O₃ catalyst: Activation energy and oxygen reaction order 1
- Copper/silica**
Pelleted copper ion-exchanged silica catalysts for the hydrolysis of acrylonitrile to acrylamide 109
- Copper-zinc oxide**
Study of copper-zinc oxide catalysts, characterisation of the coprecipitate and mixed oxide 165
- Cracking**
Catalytic cracking of gasoil: Benefits in activity and selectivity of small Y zeolite crystallites stabilized by a higher silicon-to-aluminium ratio by synthesis 65
- Demetallization**
¹³C-NMR characterization of organic residues on spent hydroprocessing, hydrocracking and demetallization catalysts 81
- Drying effects**
Effects of drying on the preparation of HF co-impregnated rhodium/Al₂O₃ catalysts 2 87
- Ethane hydrogenolysis**
The state of metallic phase in alumina-supported platinum-chromium catalysts 93
- Ethyne hydrogenation**
An unusual form of non-Arrhenius behaviour in ethyne hydrogenation over palladium catalysts 15
- Fibrillar alumina**
Fibrillar alumina as a wash-coat on monoliths in the catalytic oxidation of xylene 123
- Fischer-Tropsch synthesis**
Synthesis of motor fuels from HY-zeolite supported Fischer-Tropsch iron catalysts 47
- Fischer-Tropsch synthesis**
Synthesis of motor fuels from HY-zeolite supported Fischer-Tropsch iron catalysts 47
- Fluorine**
Molybdena-alumina interaction chemistry: Effect of preadsorbed sulphate and fluorine anions on the dispersion of molybdenum 215
- Fused-iron**
Influence of water soaking on the structure and properties of fused-iron catalyst for ammonia synthesis 33
- Galloaluminosilicate**
Aromatization of n-hexane over galloaluminosilicate and gallosilicate 115
- Gallosilicate**
Aromatization of n-hexane over galloaluminosilicate and gallosilicate 115
- Gasoil**
Catalytic cracking of gasoil: Benefits in activity and selectivity of small Y zeolite crystallites stabilized by a higher silicon-to-aluminium ratio by synthesis 65
- Granulated alumina**
Study of structural and mechanical properties of granulated alumina supports using X-ray microprobes 75
- Hexane cracking**
Quality control in the preparation of zeolite ZSM-5 using a catalytic test reaction 259
- Hexane aromatization**
Aromatization of n-hexane over galloaluminosilicate and gallosilicate 115
- Highly dispersed metal**
Thermal decomposition of metal carbonyls on oxide supports containing surface hydrides: A route to highly dispersed metal catalysts with unusual properties 235

Honeycomb supports

Distributions of HF co-impregnated rhodium, platinum and palladium in alumina honeycomb supports 271

Hydrocracking

¹³C-NMR characterization of organic residues on spent hydroprocessing, hydrocracking and demetallization catalysts 81

Hydrofluoric acid

Effects of drying on the preparation of HF co-impregnated rhodium/Al₂O₃ catalysts 287

Hydrofluoric acid

Distributions of HF co-impregnated rhodium, platinum and palladium in alumina honeycomb supports 271

Hydrogenation

Calorimetric study of the coadsorption of hydrogen and carbon monoxide over ruthenium graphitized carbon black catalysts 21

Hydroprocessing

¹³C-NMR characterization of organic residues on spent hydroprocessing, hydrocracking and demetallization catalysts 81

Iron

Influence of water soaking on the structure and properties of fused-iron catalyst for ammonia synthesis 33

Iron oxide-iron phosphate

Deactivation of iron oxide-iron phosphate catalyst in isopropanol dehydration 181

Iron/silica

Thermal decomposition of metal carbonyls on oxide supports containing surface hydrides: A route to highly dispersed metal catalysts with unusual properties 235

Isomerization

Surface passivation and shape selectivity in xylene isomerization over ZSM-48 265

Isopropanol dehydration

Deactivation of iron oxide-iron phosphate catalyst in isopropanol dehydration 181

Kinetics

Surface passivation and shape selectivity in xylene isomerization over ZSM-48 265

Kinetics

Synthesis of motor fuels from HY-zeolite supported Fischer-Tropsch iron catalysts 47

Kinetics

Influence of phosphorus in vanadium-containing catalysts for NO_x removal 151

Kinetics

Catalytic cracking of gasoil: Benefits in activity and selectivity of small Y zeolite crystallites stabilized by a higher silicon-to-aluminium ratio by synthesis 65

Kinetics

Enhancing effect of hydrogen on the catalytic activity of trisilver dodecatungstophosphate for the isomerization of 1-butene 301

Kinetics

Design of a potassium-promoted Rh/Al₂O₃ catalyst for synthesis of C₂ oxygenates by pulse surface reaction rate analysis 225

Kinetics

Aromatization of n-hexane over galloaluminosilicate and gallosilicate 115

Methanation catalyst

Valency and adsorption characteristics of a sulphided MoO₃/γ-Al₂O₃ methanation catalyst 11

Mixed oxides

Study of copper-zinc oxide catalysts, characterisation of the coprecipitate and mixed oxide 165

Molybdena-alumina

Molybdena-alumina interaction chemistry: Effect of preadsorbed sulphate and fluorine anions on the dispersion of molybdenum 215

Molybdenum oxide/tin oxide

Titration of active sites for partial oxidation of methanol over V₂O₅/SnO₂ and MoO₃/SnO₂ catalysts by a low-temperature oxygen chemisorption technique L1

Monoliths

Fibrillar alumina as a wash-coat on monoliths in the catalytic oxidation of xylene 123

Motor Fuels

Synthesis of motor fuels from HY-zeolite supported Fischer-Tropsch iron catalysts 47

Nickel/alumina

Effects of alumina dissolution and metal ion buffering on the dispersion of alumina supported nickel and ruthenium catalysts 137

Nickel-molybdenum/alumina

¹³C-NMR characterization of organic residues on spent hydroprocessing, hydrocracking and demetallization catalysts 81

Nitric oxide reduction

- Effects of drying on the preparation of HF co-impregnated rhodium/ Al_2O_3 catalysts 2
87
- Nitrogen oxides removal
Influence of phosphorus in vanadium-containing catalysts for NO_x removal 151
- NMR
 ^{13}C -NMR characterization of organic residues on spent hydroprocessing, hydrocracking and demetallization catalysts 81
- Organic residues
 ^{13}C -NMR characterization of organic residues on spent hydroprocessing, hydrocracking and demetallization catalysts 81
- Oxidative adsorption
Adsorption and oxidative adsorption of sulfur dioxide on γ -alumina 193
- Palladium/alumina
Distributions of HF co-impregnated rhodium, platinum and palladium in alumina honeycomb supports 271
- Palladium
An unusual form of non-Arrhenius behaviour in ethyne hydrogenation over palladium catalysts 15
- Passivation
Surface passivation and shape selectivity in xylene isomerization over ZSM-48 265
- Phosphorus
Influence of phosphorus in vanadium-containing catalysts for NO_x removal 151
- Platinum/alumina
Fibrillar alumina as a wash-coat on monoliths in the catalytic oxidation of xylene 123
- Platinum/alumina
Distributions of HF co-impregnated rhodium, platinum and palladium in alumina honeycomb supports 271
- Platinum-chromium/alumina
The state of metallic phase in alumina-supported platinum-chromium catalysts 93
- Platinum-rhenium/alumina
Burning of coke on Pt-Re/ Al_2O_3 catalyst: Activation energy and oxygen reaction order 1
- Pulse surface reaction rate analysis
Design of a potassium-promoted Rh/ Al_2O_3 catalyst for synthesis of C_2 oxygenates by pulse surface reaction rate analysis 225
- Quality control
Quality control in the preparation of zeolite ZSM-5 using a catalytic test reaction 259
- Regeneration
Burning of coke on Pt-Re/ Al_2O_3 catalyst: Activation energy and oxygen reaction order 1
- Regeneration
Synthesis of motor fuels from HY-zeolite supported Fischer-Tropsch iron catalysts 47
- Regeneration
Deactivation of iron oxide-iron phosphate catalyst in isopropanol dehydration 181
- Rhodium/alumina
Distributions of HF co-impregnated rhodium, platinum and palladium in alumina honeycomb supports 271
- Rhodium/alumina
Effects of drying on the preparation of HF co-impregnated rhodium/ Al_2O_3 catalysts 287
- Rhodium/alumina
Design of a potassium-promoted Rh/ Al_2O_3 catalyst for synthesis of C_2 oxygenates by pulse surface reaction rate analysis 225
- Rhodium/silica
Thermal decomposition of metal carbonyls on oxide supports containing surface hydrides: A route to highly dispersed metal catalysts with unusual properties 235
- Ruthenium/alumina
Effects of alumina dissolution and metal ion buffering on the dispersion of alumina supported nickel and ruthenium catalysts 137
- Ruthenium/carbon
Calorimetric study of the coadsorption of hydrogen and carbon monoxide over ruthenium graphitized carbon black catalysts 21
- Selectivity (gasoline range hydrocarbons)
Synthesis of motor fuels from HY-zeolite supported Fischer-Tropsch iron catalysts 47
- Selectivity (gasoline, diesel, olefins)
Catalytic cracking of gasoil: Benefits in activity and selectivity of small Y zeolite crystallites stabilized by a higher silicon-to-aluminium ratio by synthesis 65
- Selectivity (light alcohols)
Thermal decomposition of metal carbonyls on oxide supports containing surface hydrides: A route to highly dispersed metal catalysts with unusual properties 235
- Selectivity (C_2 oxygenates)

- Design of a potassium-promoted Rh/Al₂O₃ catalyst for synthesis of C₂ oxygenates by pulse surface reaction rate analysis 225
- Selectivity (aromatics)
- Aromatization of n-hexane over galloaluminosilicate and gallosilicate 115
- Selectivity (olefins)
- Calorimetric study of the coadsorption of hydrogen and carbon monoxide over ruthenium graphitized carbon black catalysts 21
- Selectivity (shape)
- Surface passivation and shape selectivity in xylene isomerization over ZSM-48 265
- Sintering
- The state of metallic phase in alumina-supported platinum-chromium catalysts 93
- Sintering
- Fibrillar alumina as a wash-coat on monoliths in the catalytic oxidation of xylene 123
- Sintering
- Thermal decomposition of metal carbonyls on oxide supports containing surface hydrides: A route to highly dispersed metal catalysts with unusual properties 235
- Sulphate
- Molybdena-alumina interaction chemistry: Effect of preadsorbed sulphate and fluorine anions on the dispersion of molybdenum 215
- Sulphur dioxide
- Adsorption and oxidative adsorption of sulfur dioxide on γ -alumina 193
- Syngas conversion
- Design of a potassium-promoted Rh/Al₂O₃ catalyst for synthesis of C₂ oxygenates by pulse surface reaction rate analysis 225
- Syngas conversion
- Thermal decomposition of metal carbonyls on oxide supports containing surface hydrides: A route to highly dispersed metal catalysts with unusual properties 235
- Valency
- Valency and adsorption characteristics of a sulphided MoO₃/ γ -Al₂O₃ methanation catalyst 11
- Vanadia/titania
- Influence of phosphorus in vanadium-containing catalysts for NO_x removal 151
- Vanadium oxide/tin oxide
- Titration of active sites for partial oxidation of methanol over V₂O₅/SnO₂ and MoO₃/SnO₂ catalysts by a low-temperature oxygen chemisorption technique L1
- Voohties equation
- Deactivation of iron oxide-iron phosphate catalyst in isopropanol dehydration 181
- Wash-coat
- Fibrillar alumina as a wash-coat on monoliths in the catalytic oxidation of xylene 123
- Water soaking
- Influence of water soaking on the structure and properties of fused-iron catalyst for ammonia synthesis 33
- Water-gas shift reaction
- Study of copper-zinc oxide catalysts, characterisation of the coprecipitate and mixed oxide 165
- X-ray microprobes
- Study of structural and mechanical properties of granulated alumina supports using X-ray microprobes 75
- Xylene oxidation
- Fibrillar alumina as a wash-coat on monoliths in the catalytic oxidation of xylene 123
- Xylene isomerization
- Surface passivation and shape selectivity in xylene isomerization over ZSM-48 265
- Zeolites
- Quality control in the preparation of zeolite ZSM-5 using a catalytic test reaction 259
- Zeolites
- Catalytic cracking of gasoil: Benefits in activity and selectivity of small Y zeolite crystallites stabilized by a higher silicon-to-aluminium ratio by synthesis 65
- Zeolites
- Surface passivation and shape selectivity in xylene isomerization over ZSM-48 265
- Zeolites
- Aromatization of n-hexane over galloaluminosilicate and gallosilicate 115

